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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,978	01/23/2004	Plamen Denchev	205502-9037	9303
1131 MICHAEL BE	7590 07/28/2909 EST & FRIEDRICH LLI	EXAMINER		
Two Prudentia	d Plaza		HWU, JUNE	
180 North Stet CHICAGO, IL	son Avenue, Suite 2000 . 60601		ART UNIT	PAPER NUMBER
			1661	
				-
			MAIL DATE	DELIVERY MODE
			07/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

	Application No.	Applicant(s)			
	10/764,978	DENCHEV ET AL.			
	Examiner	Art Unit			
	JUNE HWU	1661			

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress				
THE REPLY FILED 13 July 2009 FAILS TO PLACE THIS APPL	ICATION IN CONDITION FOR AL	LOWANCE.					
 N The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, v with 37 CFR 41.31; o	hich places the (3) a Request				
a) The period for reply expires 5 months from the mailing date of the final rejection.							
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.							
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TW MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).							
Extensions of time may be obtained under 37 CFR 1,136(a). The date have been filled is the date for purposes of determining the period of extunder 37 CFR 1,17(a) is calculated from: (1) the expiration date of the s set forth in (b) above, if checked. Any pely received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1,704(b). NOTICE OF APPEAL.	ension and the corresponding amount of hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropri- nally set in the final Office	ate extension fee e action; or (2) as				
 The Notice of Appeal was filed on 13 July 2009. A brief in 	compliance with 37 CFR 41 37 mg	ist he filed within two	months of the				
date of filing the Notice of Appeal (37 CFR 41.37(a)), or an Since a Notice of Appeal has been filed, any reply must be	ny extension thereof (37 CFR 41.37	7(e)), to avoid dismiss	al of the appeal.				
<u>AMENDMENTS</u>							
 The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further con 			cause				
(b) They raise the issue of new matter (see NOTE below		E below),					
(c) They are not deemed to place the application in bett appeal; and/or		lucing or simplifying t	ne issues for				
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	cted claims.					
NOTE: (See 37 CFR 1.116 and 41.33(a)).	·····,						
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Cor	mpliant Amendment (PTOL-324).				
 Applicant's reply has overcome the following rejection(s): 							
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	owable if submitted in a separate, t	imely filed amendmer	nt canceling the				
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		be entered and an e	xplanation of				
Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) rejected: Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
 The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	l and/or appellant fail	s to provide a				
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.				
The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:				
12. ☐ Note the attached Information Disclosure Statement(s).	PTO/SB/08) Paper No(s).						
13. Other:							
	/June Hwu/						

Primary Examiner, Art Unit 1661

Continuation of 11, does NOT place the application in condition for allowance because:

103(a) rejection over Handley in view of Schuller and further in view of Find: Applicants argue that Find believed lactose was used as an osmoticum in the maturation medium which would lead those skilled in the art away from including lactose in dirudction, maintenance or prematuration media. This is not found persuasive because Find taught that suitable carbon sources include lactose, galactose, maltose, sucrose, glucose, etc. (col. 4, lines 3-7). Thus, it would have been obvious to substitute the sugars listed in Handley (glucose, maltose, sucrose, and combination thereof (col. 10, lines 53-58)) with lactose as taught by Find because Find taught that lactose is a suitable carbon source (col. 4, lines 3-7).

Applicants argue that Schuller teaches away from generalization to other confers by stating in the first sentence of the Introduction that "Solomatic embryogenesis in Abics alba., is different from that in other confiers since the induction and proliferation of ESM could be achieved on media supplemented with cytokinin only." Thus, those skilled in the art would not generalize a method used in Abics alba with that used in maturation, a distinct phase, to arrive at the claimed invention. This argument is not found persuasive becauses Schuller taught that carbohydrate combinations (lactose and sucrose) in the maturation media produced somatic embryos (Table 2). Since the carbohydrate combinations produced somatic embryos then it would have been obvious to use carbohydrate combinations with other confiers such as Pinus teader.

103(a) rejection over Handley in view of Fan: Applicants argue that distinct developmental phases require distinct media. This argument is not found persuasive because the claims do not limit to distinct media. The induction, maintenance and prematuration media comprise of lactose (1% to 6%) as the nutrient medium. There are not differences between the media as claimed.

Applicants argue that Examples 1 and 3 show unexpected results with lactose. This is not found persuasive because the examples do not show unexpected results when lactose comprise of 1.25%, 1.75%, 2.0%, 2.25%, 2.5%, 3.0%, 3.25%, 3.5%, 3.75%, 4.0%, 4.25%, 4.5%, 4.5%, 5.0%, 5.0%, 5.5%, 5.5%, 5.75% or 6.0% of the nutrient medium. The claims are limited to between 1% and 6%. Example 3 shows result with 1.5% lactose and Example 1 shows results with 1.5% lactose and 0.025% glucose. Moreover, Applicants have not shown any evidence of creater than exceeded results from the prior art references.

103(a) rejection over Handley in view of Pullman: Applicants argue that different developmental stages require different media and that the use of a carbon source in one stage, like use of a growth hormone in one stage can not simply be equated while use of carbon source or growth hormone in a distinct developmental stage. This argument is not found persuasive because the maintenance and prematuration media comprises of galactose-containing sugar and additional sugar, wherein Handley taught maltose, glucose, sucrose or combinations thereof in the media (col), 6, lines 3-5) and Pullman taught galactose maltose, glucose, fructose, sucrose or combinations thereof (col. 9, lines 5-456). Thus, it would have been orbivous to use the combinations of sugars as listed in Pullman (col. 9). Moreover the claims do not limit to any use of growth hormones in the maintenance medium, or maturation medium.

Applicants argue that Examiner fails to note the direct comparison in Example 10 to sucrose and matose. This argument is not found persuasive because Handley was combined with Pullman, wherein Handley taught the use of maltose, glucose, sucroses, galactose and combinations thereof as the sugars and Pullman taught the use of maltose, glucose, fructose, sucrose, galactose or combinations thereof as the sugars. Thus, it would have been obvious to one skilled in the art to use galactose and an additional gray such as maltose or sucrose or any other combination of sugars as listed by Handley and Pullman. It is noted that Table 11 in Example 10 uses galactose and maltose and sucrose.

Applicants argue that Examiner fails to note other combinations of galactose-containing sugar with additional sugar in Example 2. This argument is not found persuasive because as stated above Handley and Pullman both taught "combinations thereof" which would include at least two types of sugars.